

Figure 1

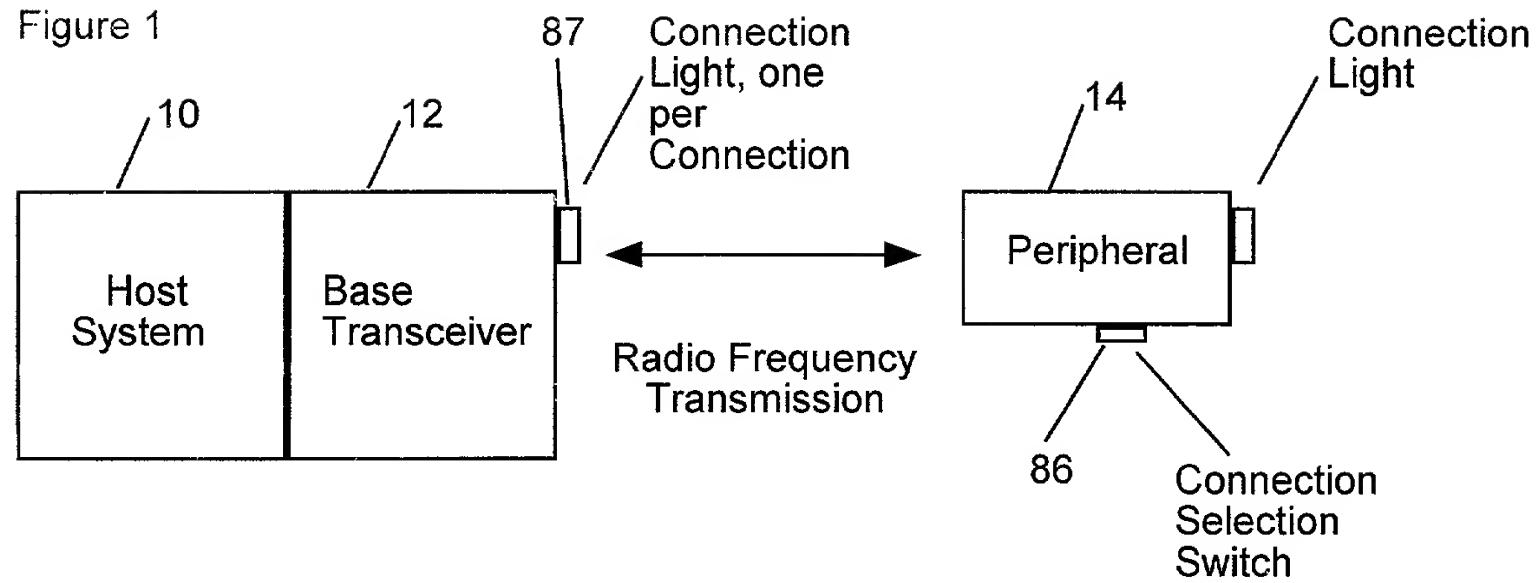


Figure 2

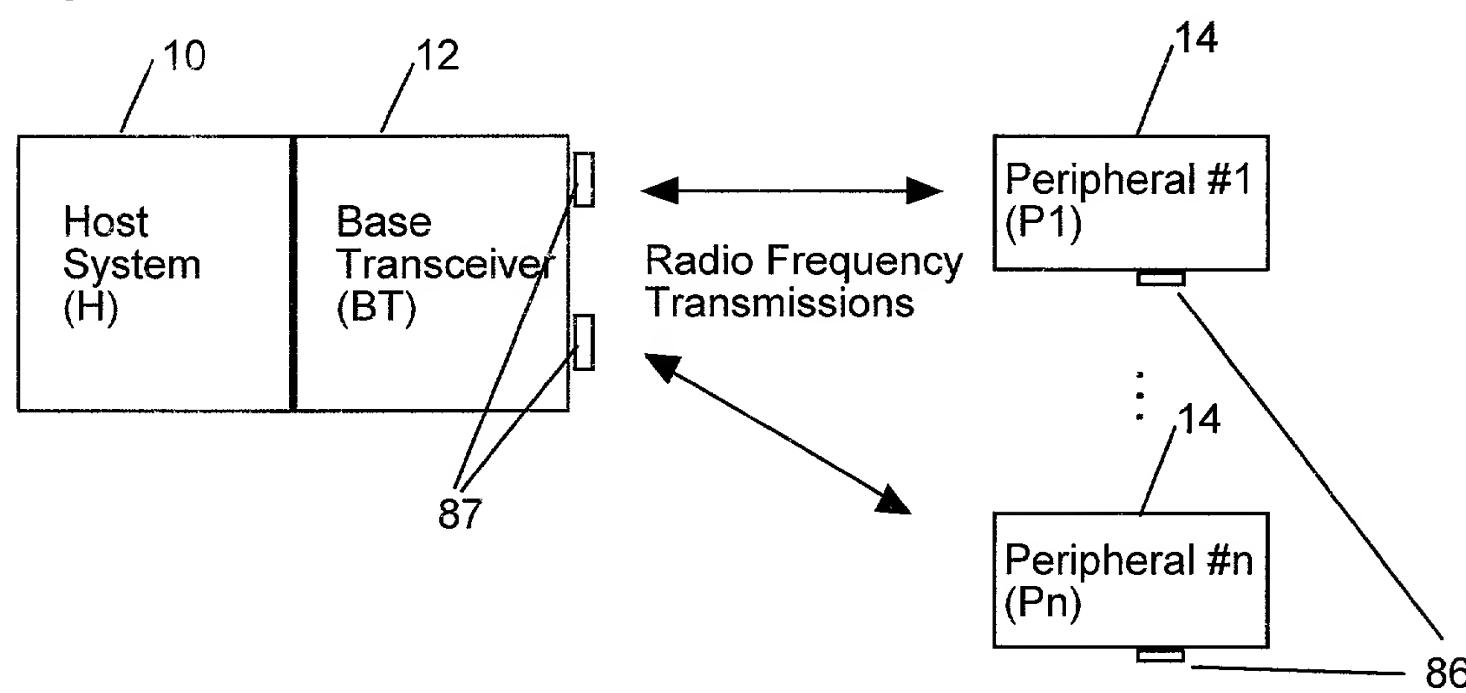


Figure 3

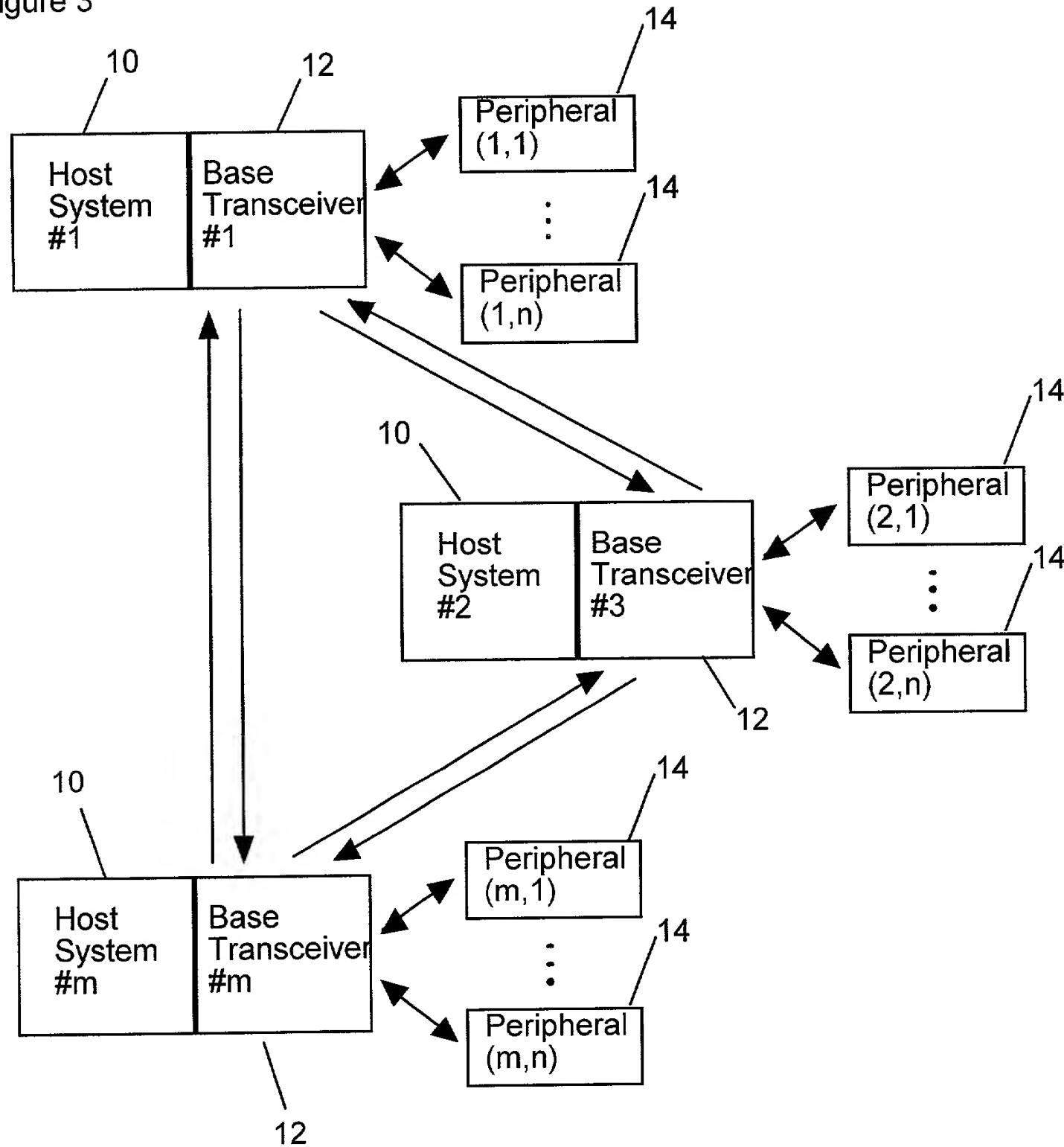


Figure 4a

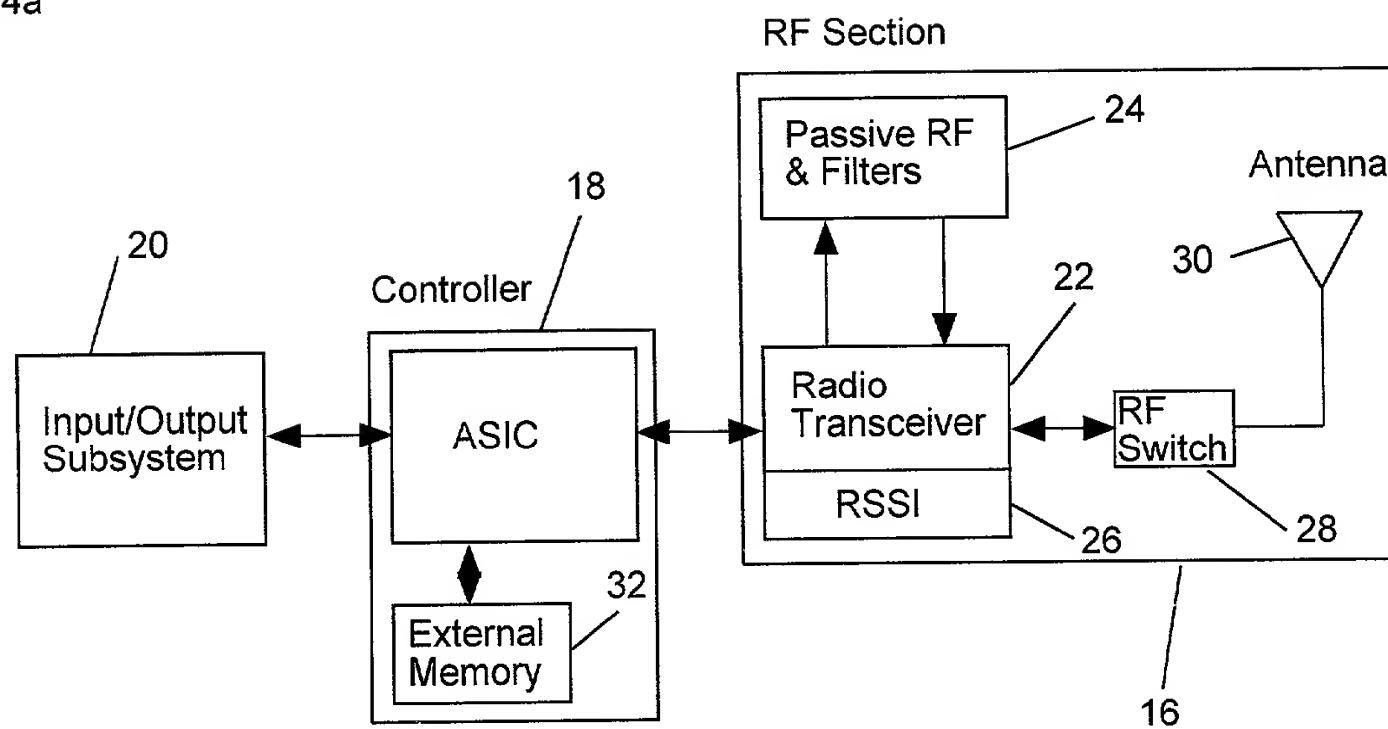


FIG. 4b Peripheral

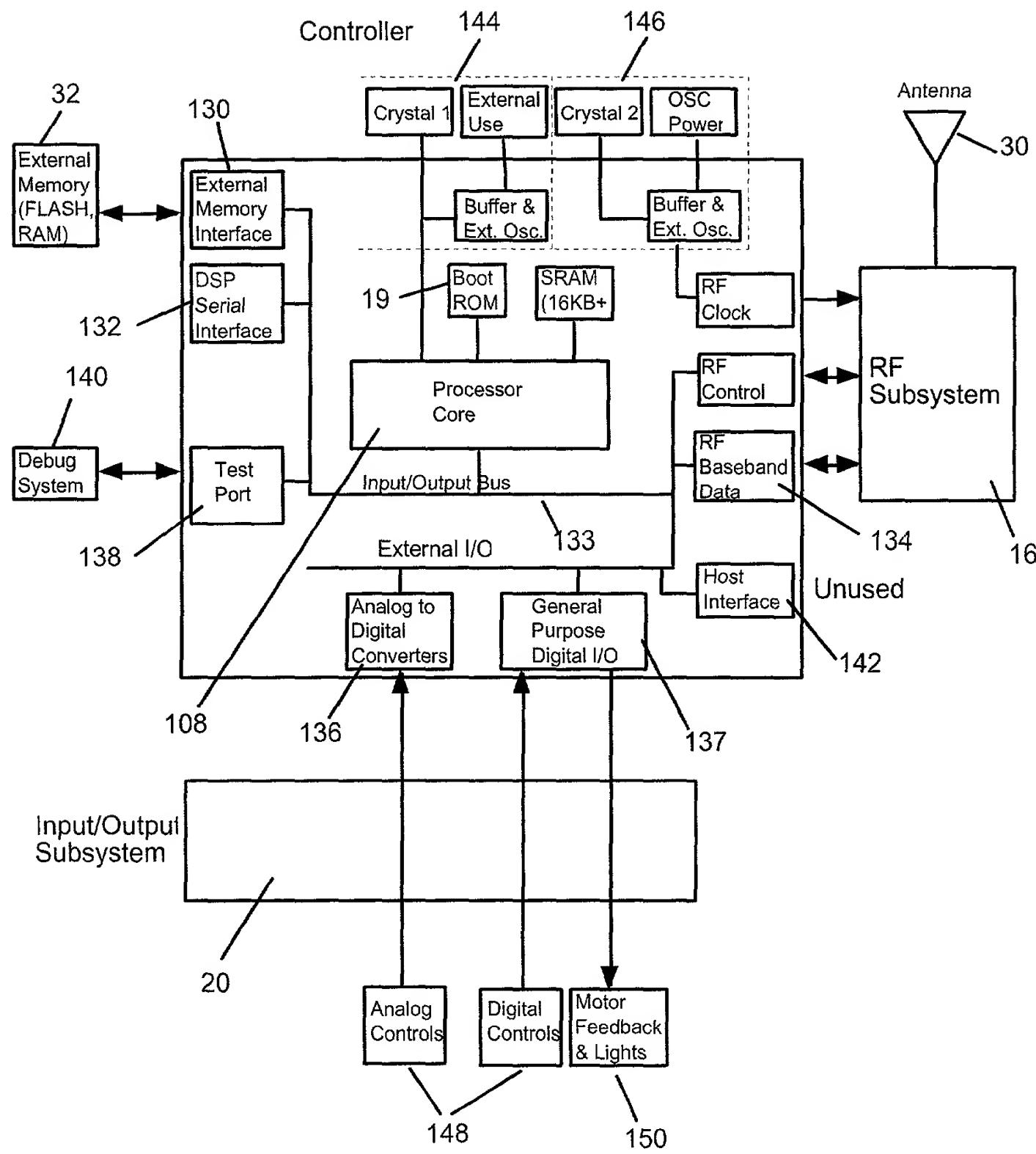


FIG. 4c Base Transceiver Subsystem

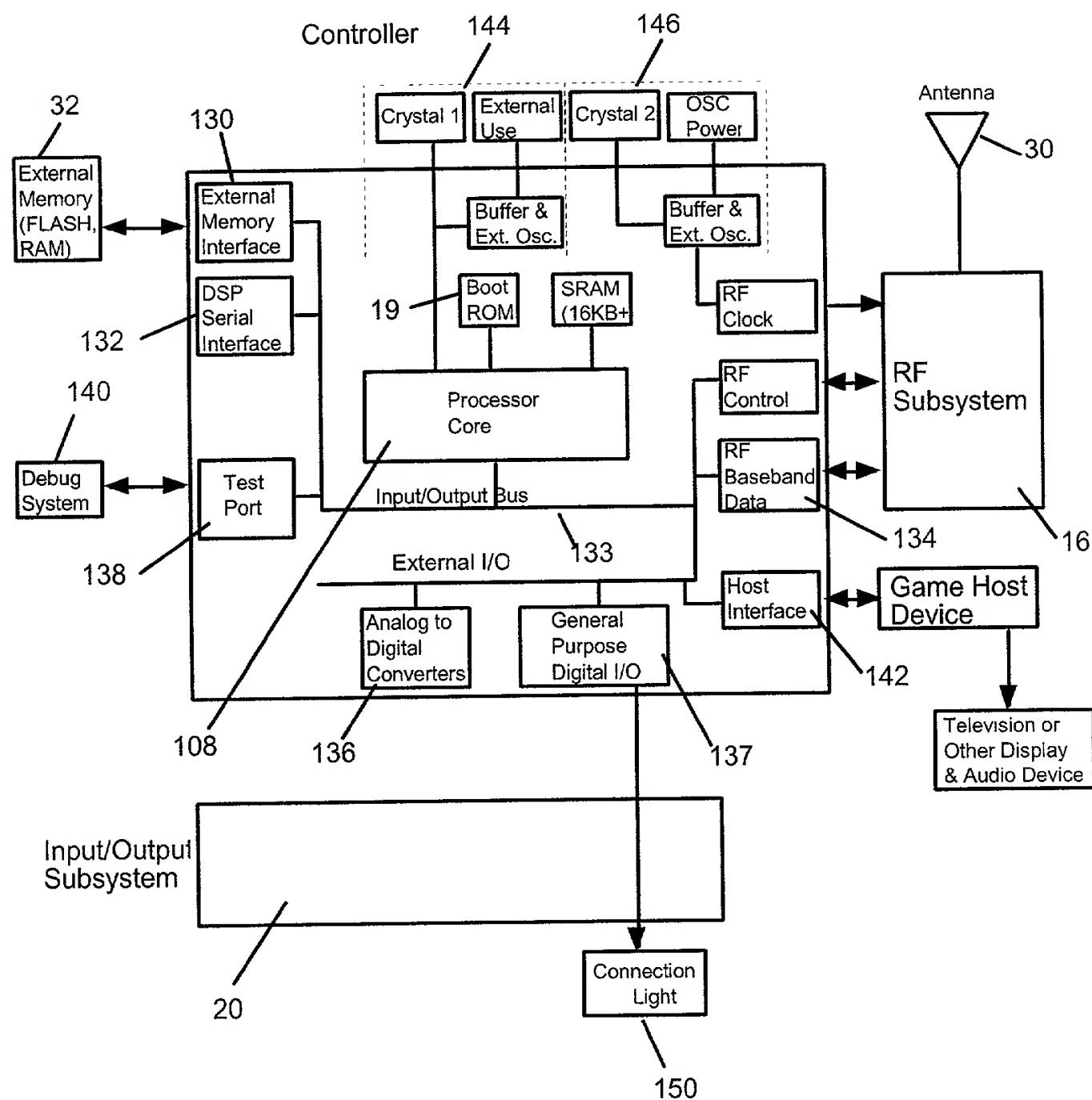


Figure 5

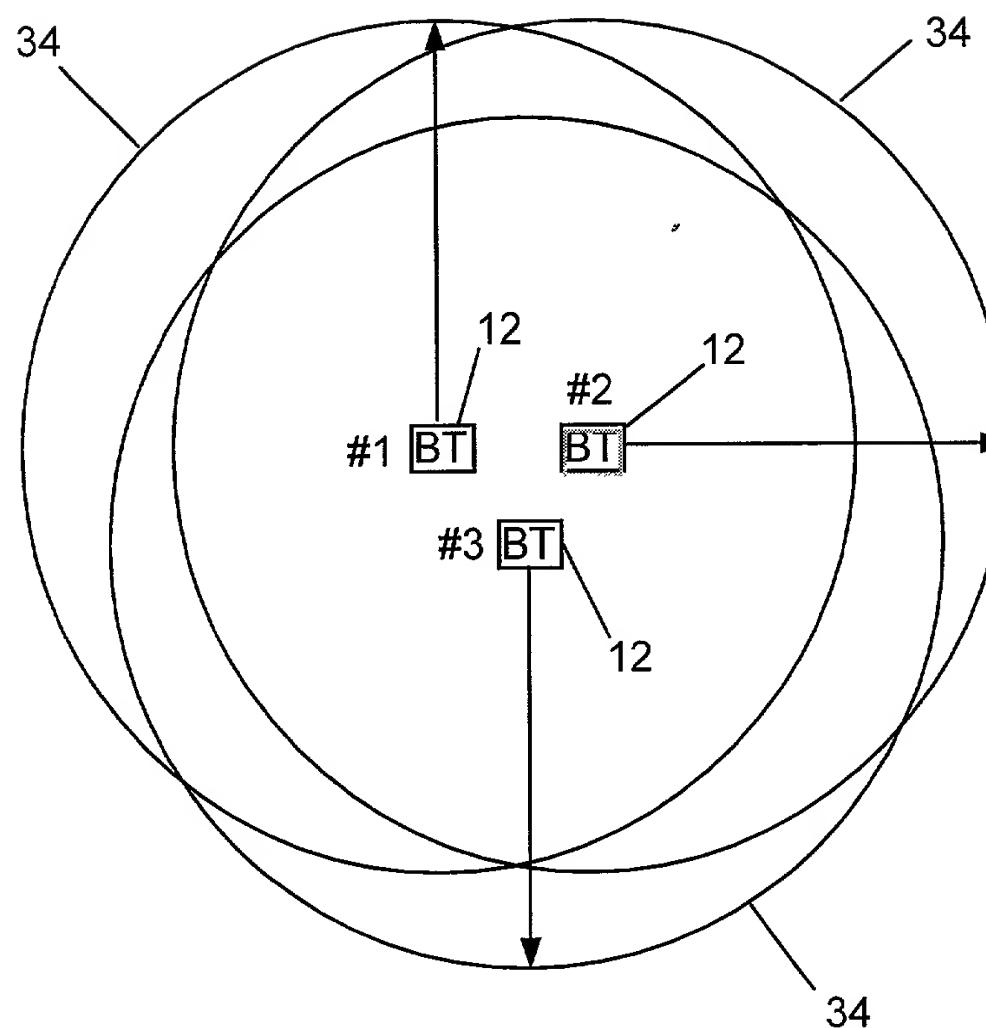


Figure 6

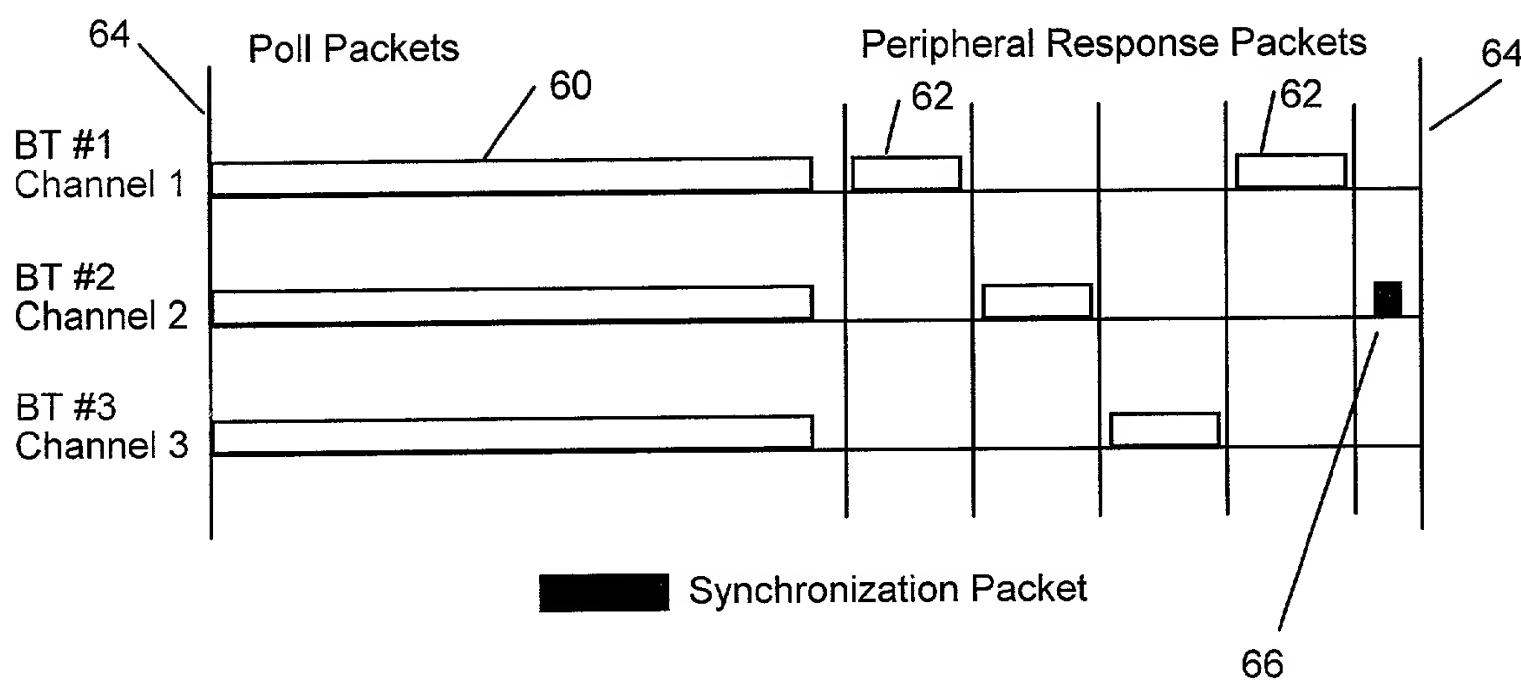


Figure 7

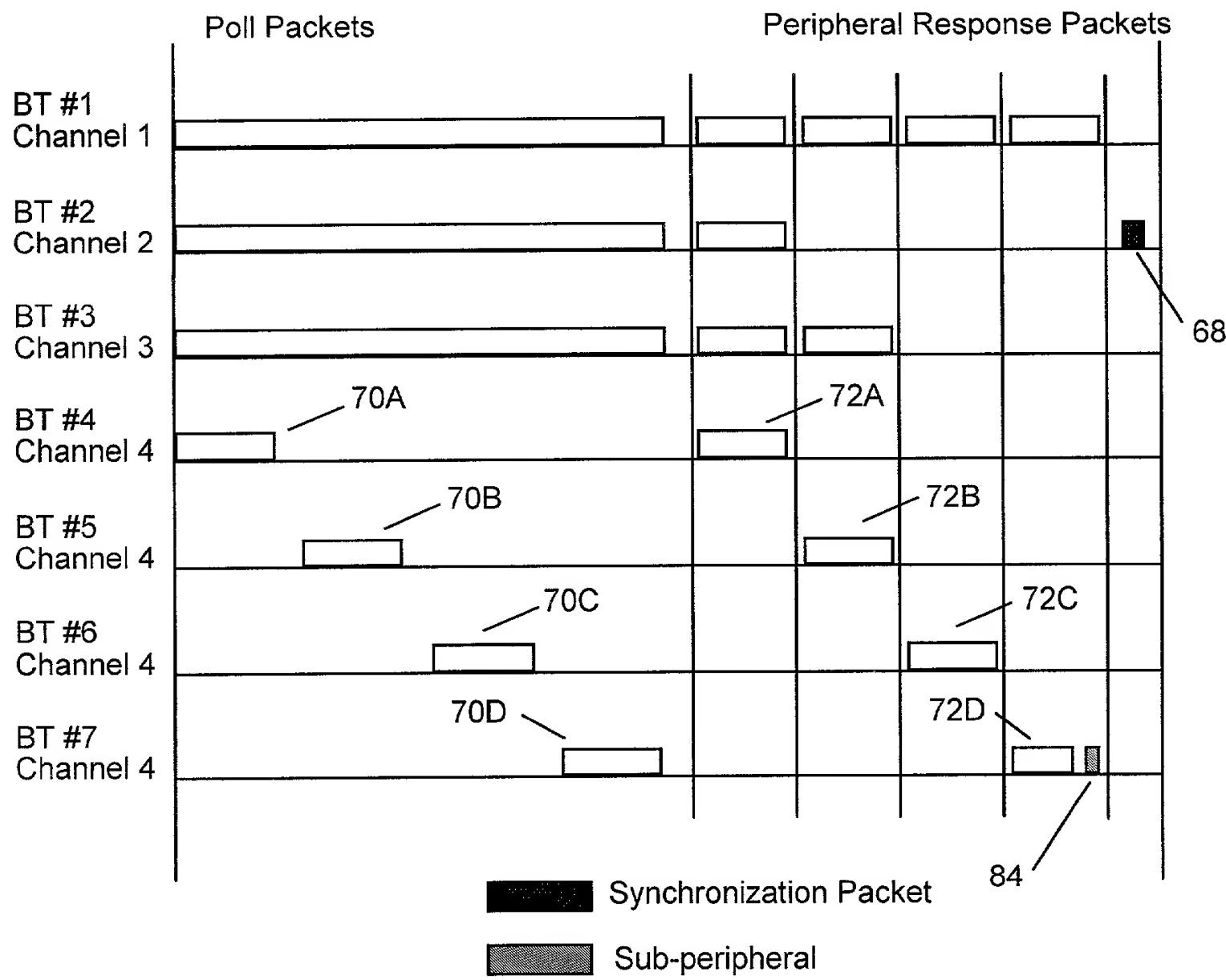


Figure 8a

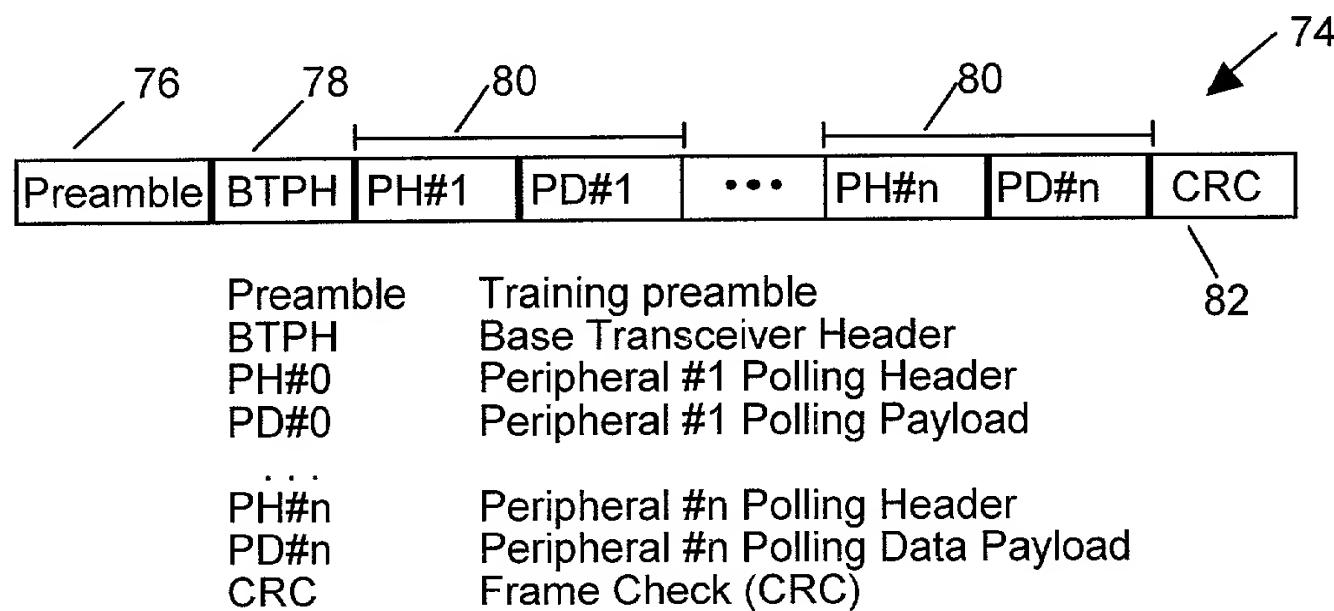


Figure 8b

POLL Packet

PREAMBLE

POLL HEADER (3 byte)

- START Code
- POLL Packet Identifier
- POLL Packet Length
- Message Type - e.g. JOIN type
- Message Data
- SYNC Sequence Type
- SYNC Sequence Pointer
- BT Sync Period
- BT ID Number
- BT Subslot Number
- Channel Hop Sequence Type
- Channel Hop Sequence Pointer
- Channel Hop Rate - every 1 to n volleys
- RESERVED
- Peripheral Field Identifier
- Peripheral Field Length

P1 Header - P1, mating ID, data field length

P1 Data

...

Pn Header

Pn Data

CRC

Figure 9a

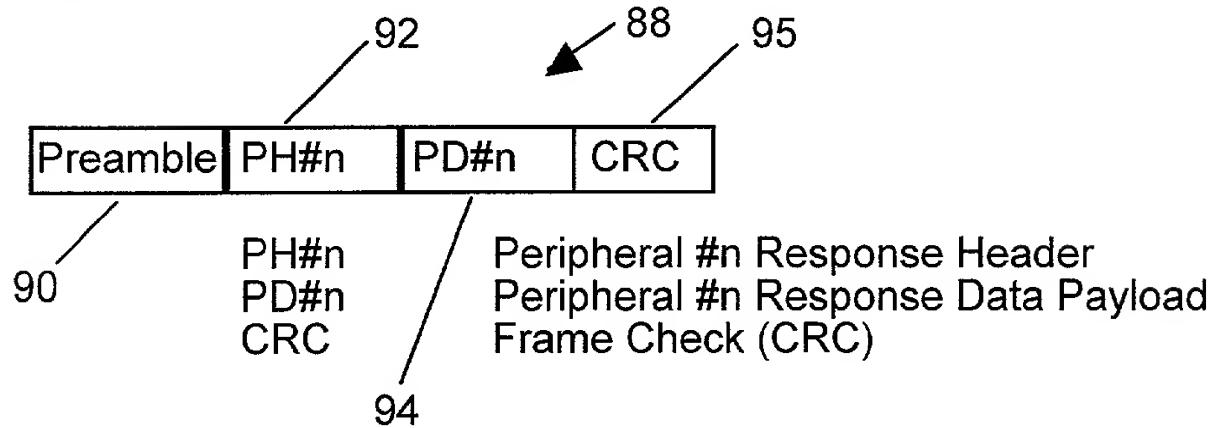


Figure 9b

RESPONSE Packet
PREAMBLE
RESPONSE HEADER (3byte)
START Code
RESPONSE Packet Identifier
RESPONSE Packet Length
Short Form Mating ID
RESERVED
RESPONSE DATA PAYLOAD
Message Type
Message Length
Message Data
CRC

Figure 10

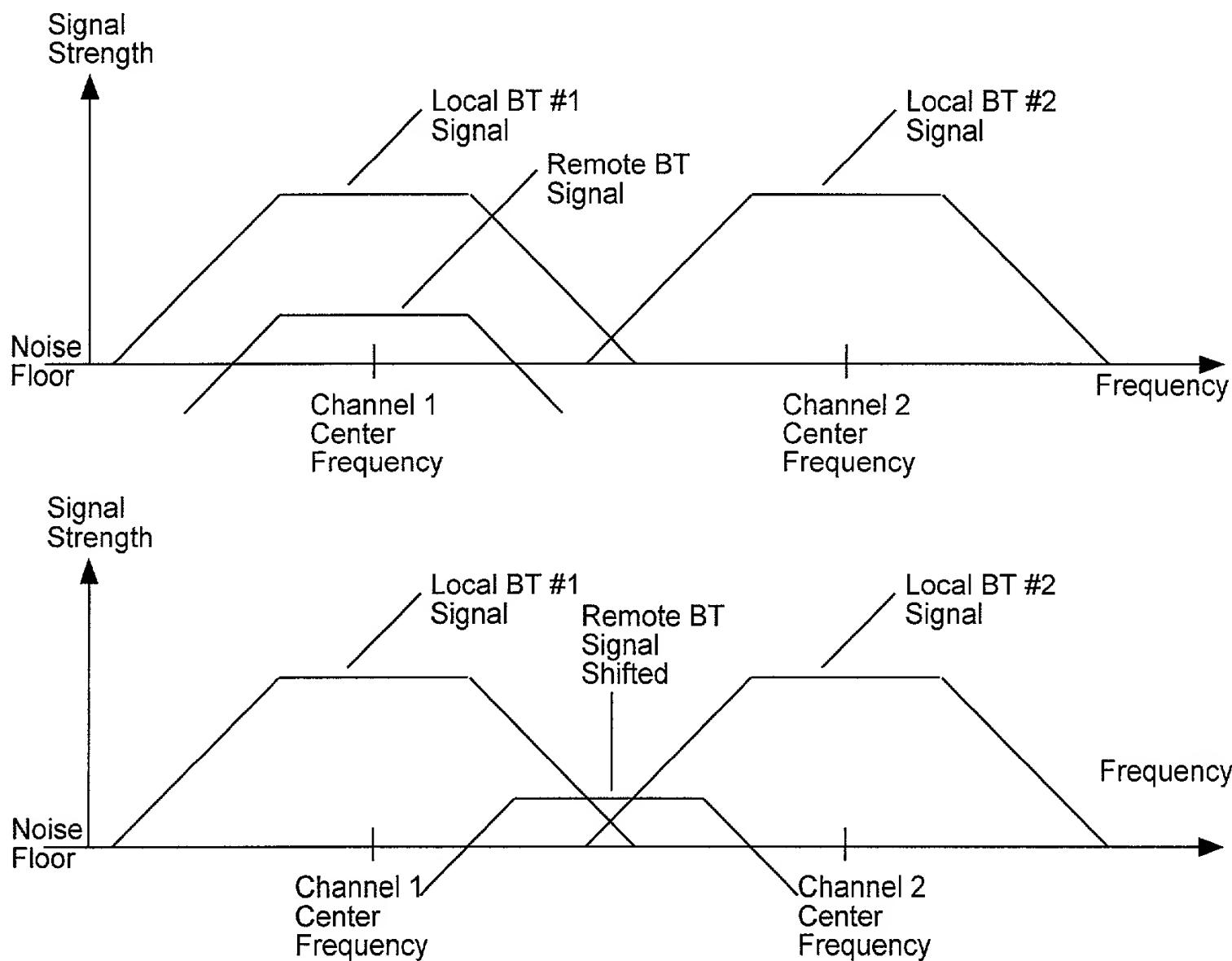


Figure 11a Synchronization Packet Format

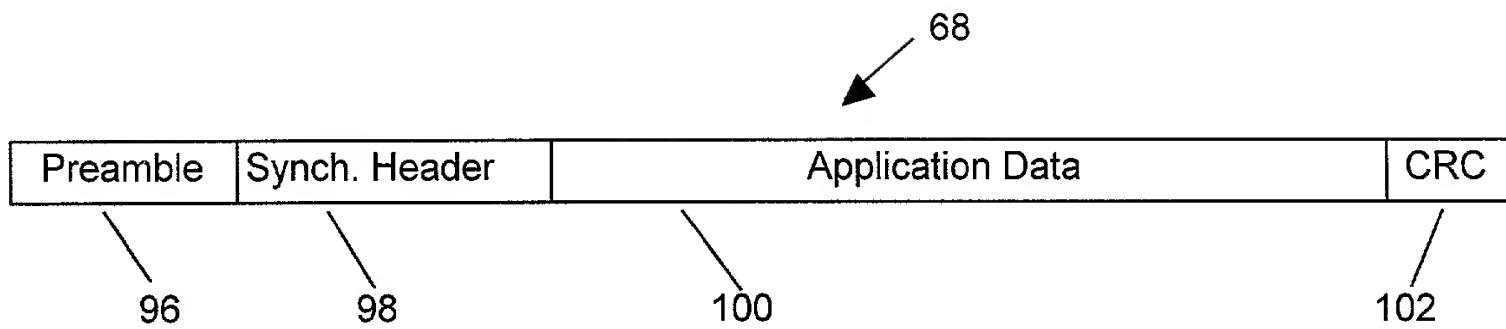


Figure 11b

SYNC Packet

PREAMBLE

SYNC HEADER (3byte)

- START Code
- SYNC Packet Identifier
- SYNC Length in bytes
- Code Type Used
- RESERVED

APPLICATION DATA

- SYNC Sequence Type
- SYNC Sequence Pointer
- BT Sync Period
- BT ID Number
- BT Subslot Number
- Number of Channels
- Channel List
- Channel Hop Sequence Type
- Channel Hop Sequence Pointer
- Channel Hop Rate - every 1 to n volleys
- Number of BT Map items
- BT Map
 - BT ID #1, Channel Hop pointer, SYNC Hop pointer
 - BT ID #2, Channel Hop pointer, SYNC Hop pointer
 - NULL, Channel Hop pointer, SYNC Hop pointer
 - BT ID #3, Channel Hop pointer, SYNC Hop pointer
- Number of Peripherals
- Number of Slots
- P Map
 - P ID #1, Slot Number e.g.S=1
 - P ID #2, Slot Number e.g.S=2
 - P ID #3, Slot Number e.g.S=3
 - P ID #4, Slot Number e.g.S=3 - subperipheral
- Message Type - e.g. New BT, Channel abandon, Channel add
- Message Data

CRC

Figure 12a Adding and Removing Base Transceivers

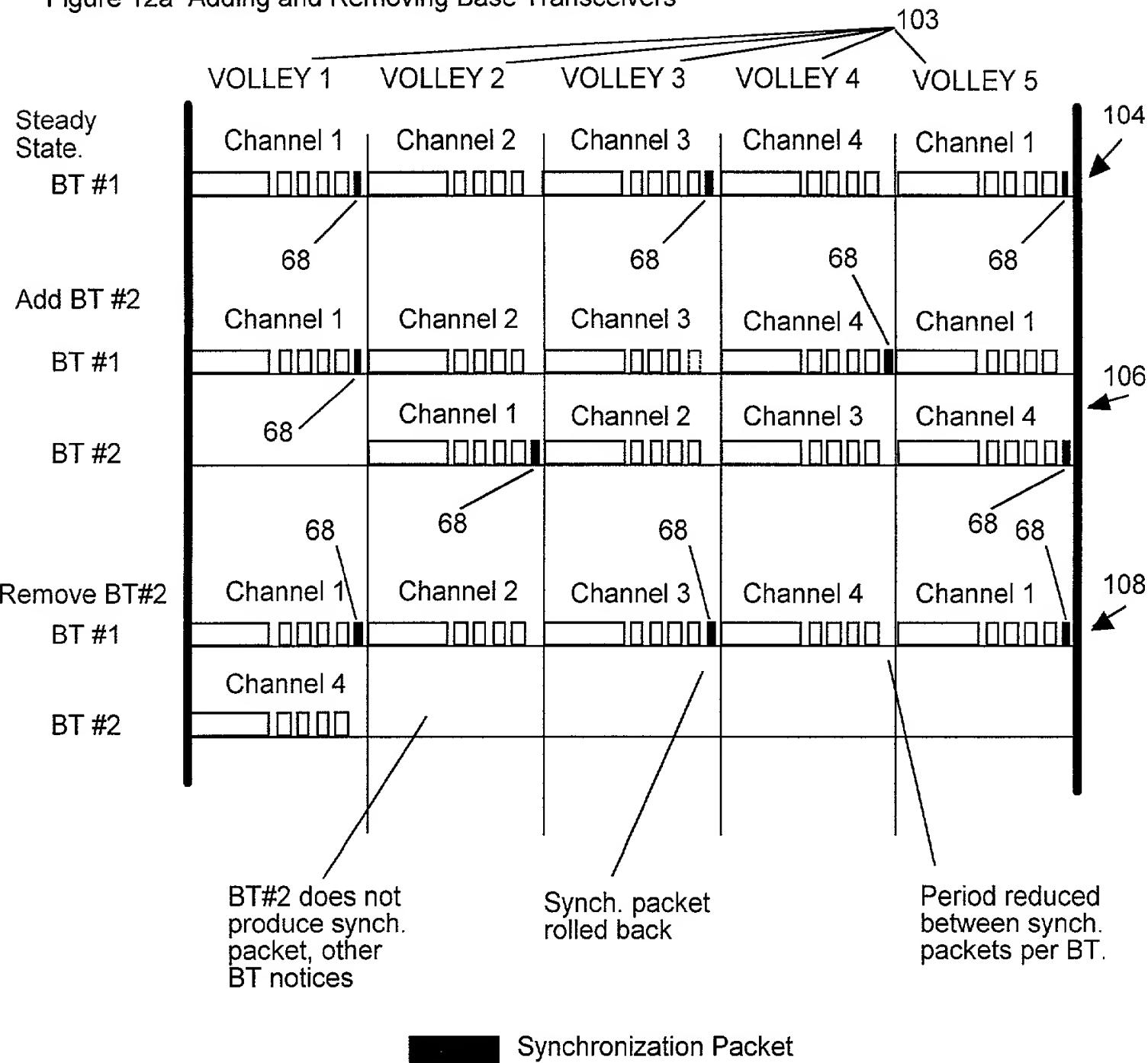


Figure 12b Adding a Base Transceiver - State Information

OPERATING PARAMETERS	STATE INFORMATION PER POLLING VOLLEY				
250 Polling Volley Number	1	2	3	4	5
252 SYNC Channel	1	1	1	4	4
254 BT Map BT #1	BT #1,1,1 NULL,4,4	BT #1,2,2 NULL,1,1	BT #1,3,3 BT #2,2,2 NULL,1,1	BT #1,4,4 BT #2,3,3 NULL,2,2	BT #1,1,1 BT #2,4,4 NULL,3,3
256 BT Map BT #2	No map, just listening	BT #1,2,2 BT #2,1,1 NULL,4,4	BT #1,3,3 BT #2,2,2 NULL,1,1	BT #1,4,4 BT #2,3,3 NULL,2,2	BT #1,1,1 BT #2,4,4 NULL,3,3
258 BT #1 SYNC Period	2	2	3	3	3
260 BT#2 SYNC Period	None, listening	3	3	3	3
262 Listening BTs	BT #2	BT #1	BT #1, BT #2	BT #2	BT #1
264 SYNC Packet Broadcasting BTs	BT #1	BT #2	Listen to NULL freq	BT #1	BT #2
266 SYNC Message BT #1	None	None	None	None	None
268 SYNC Message BT #2	None	New BT	None	None	None

Figure 13

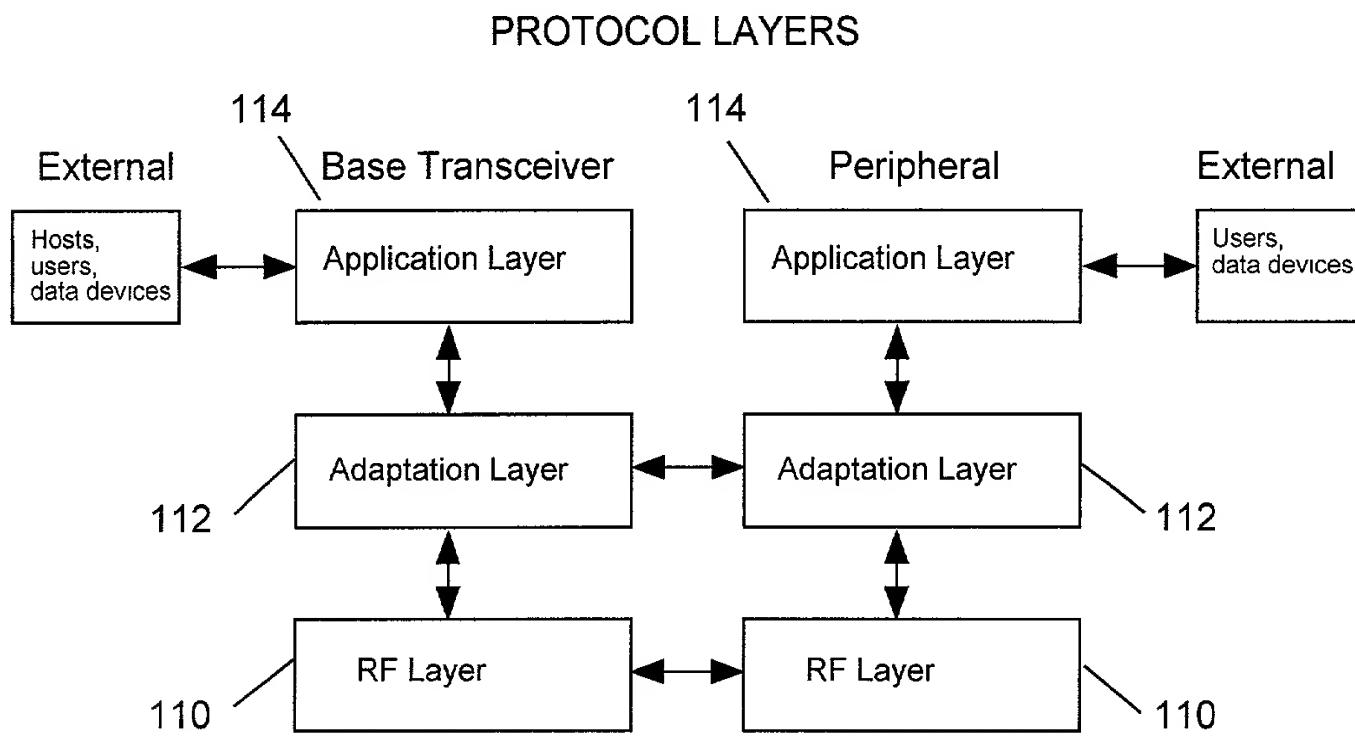


Figure 14

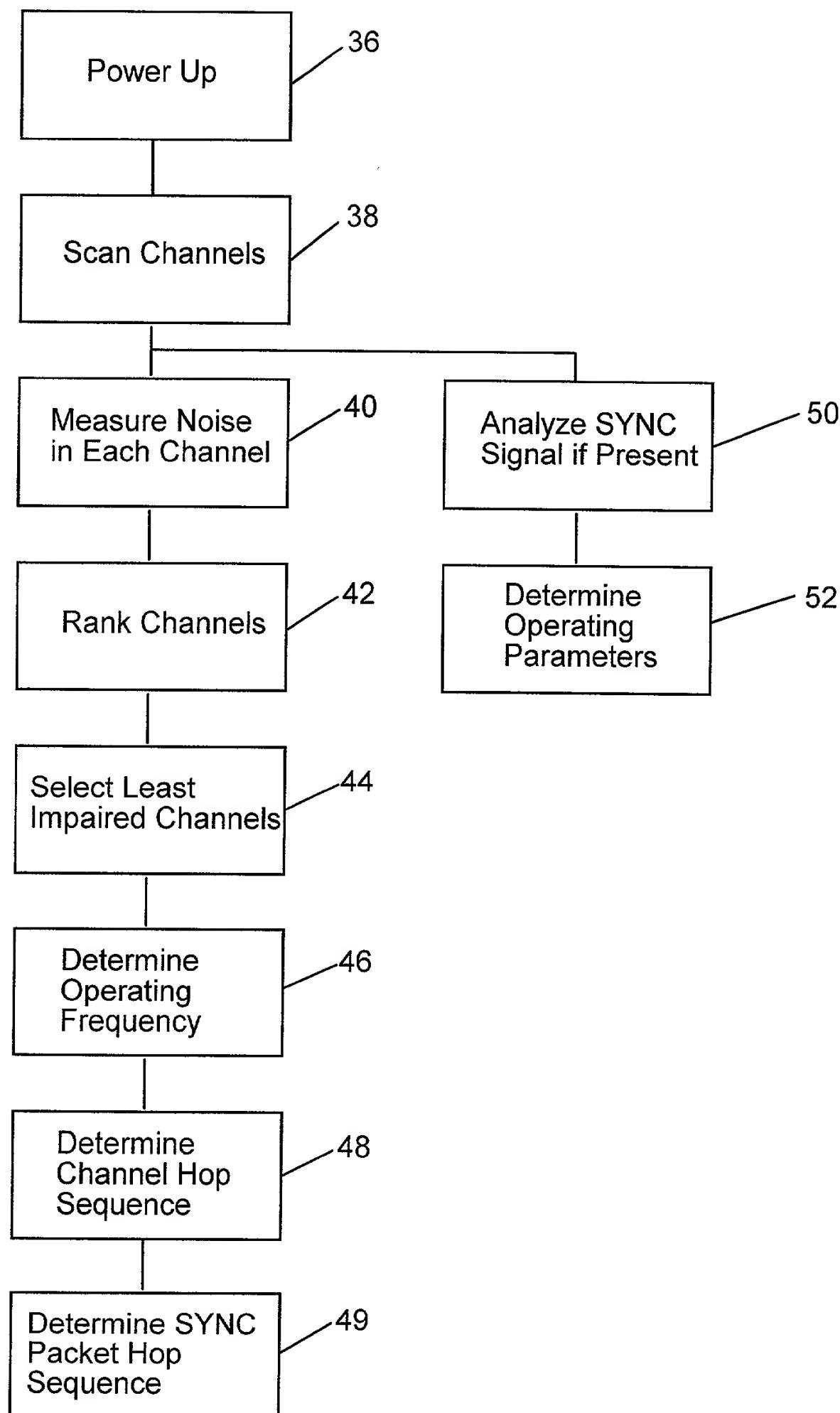


Figure 15

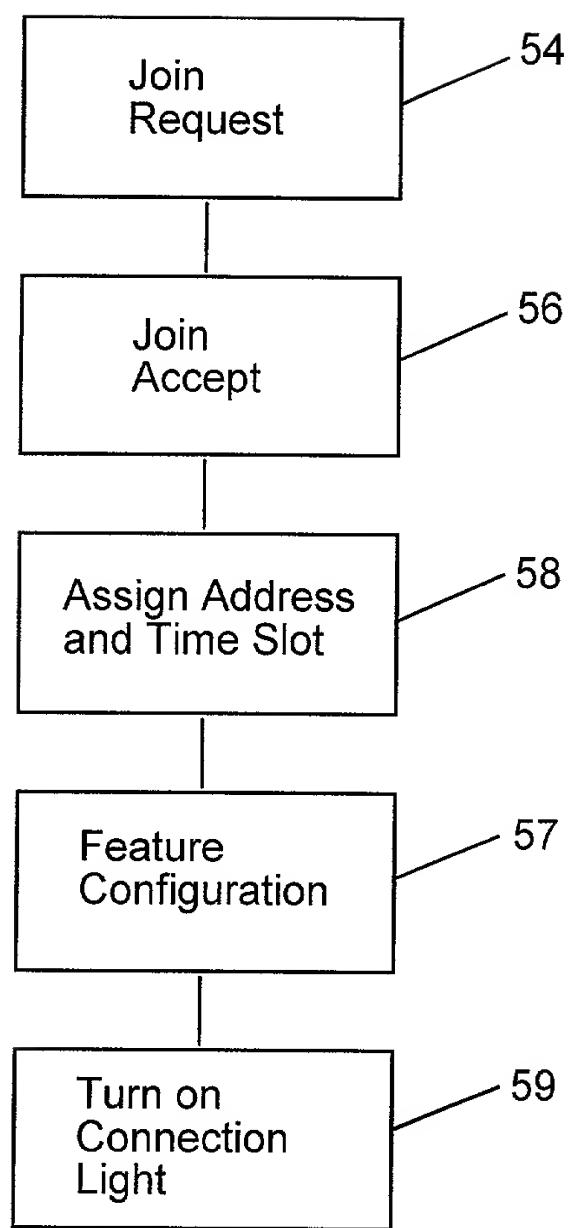


Figure 16 Resize Operation

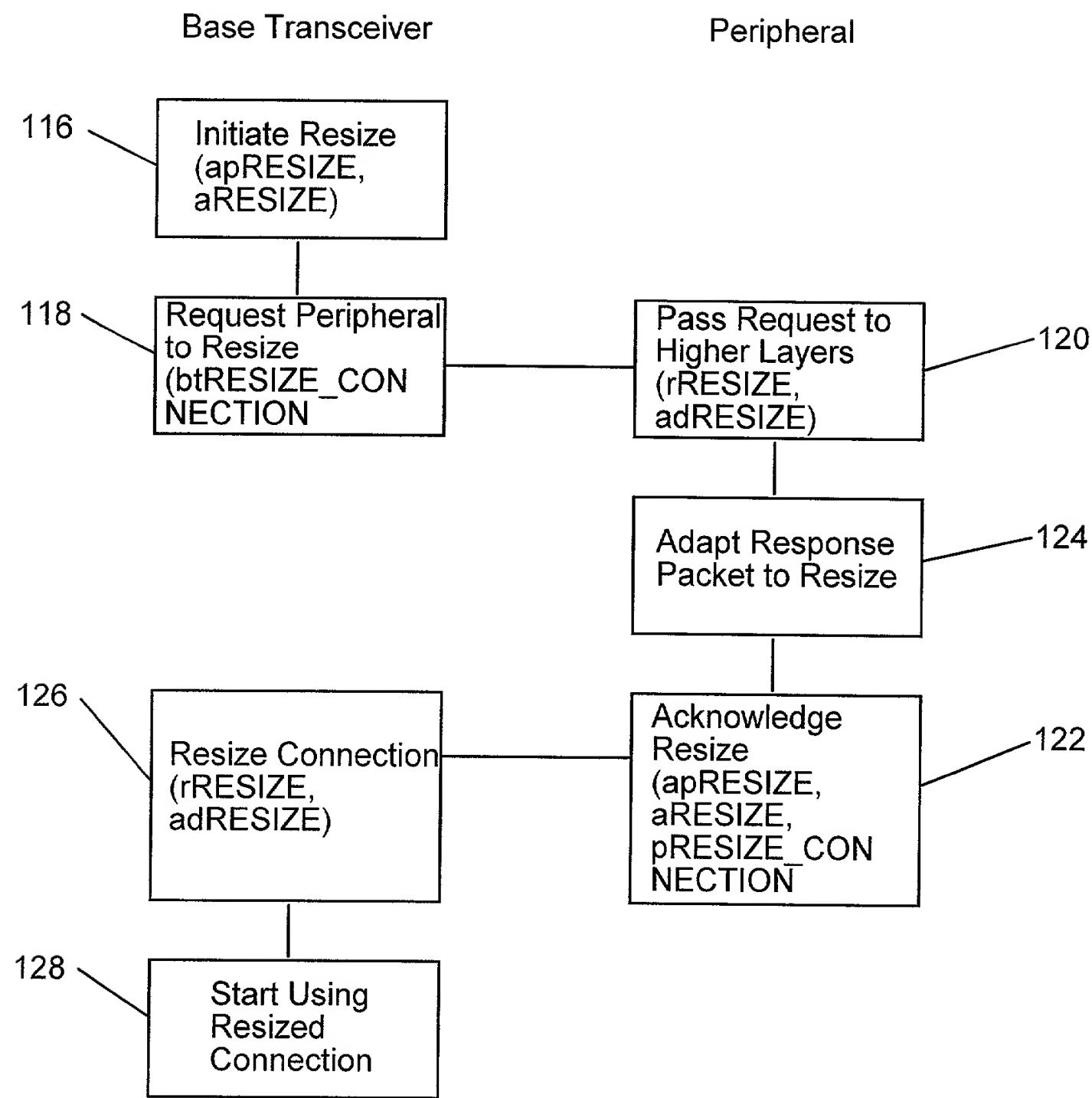


Figure 17 Bit & Word Synchronization

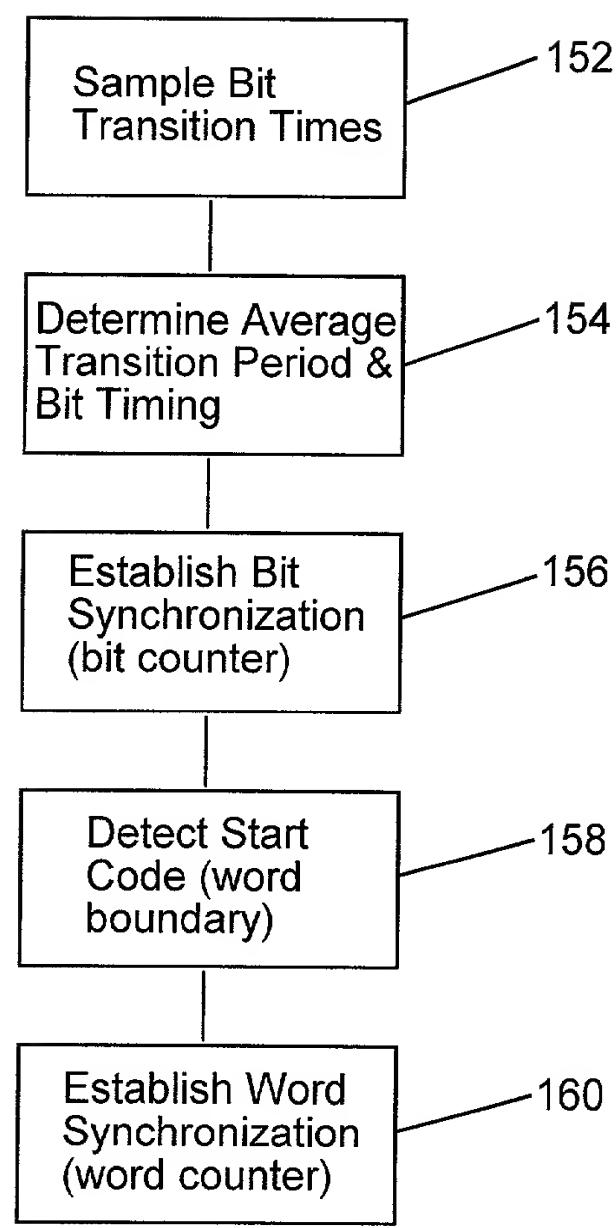


Figure 18 BT Polling Synchronization

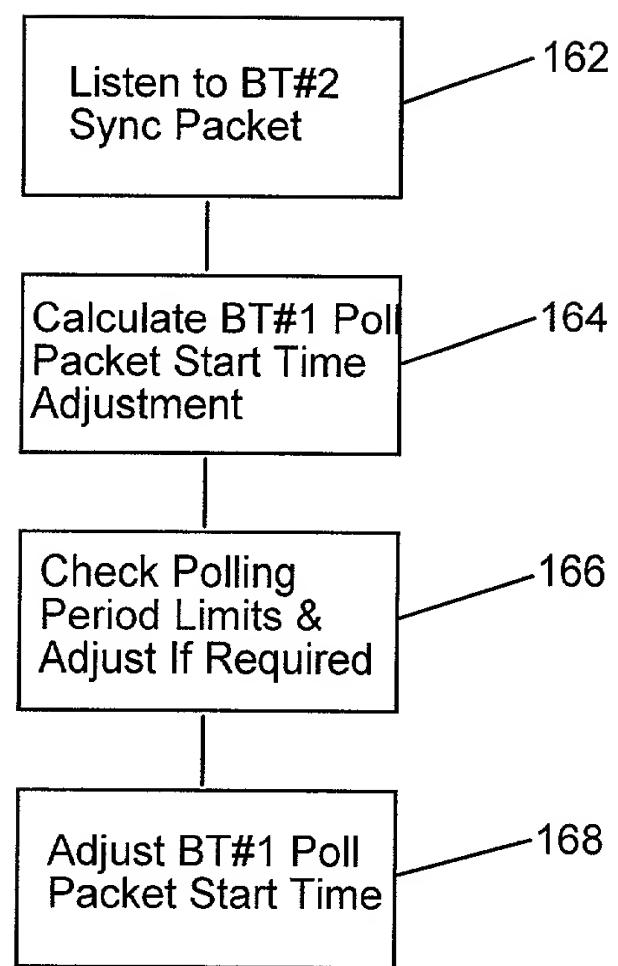


Figure 19 Base Transceivers Sharing a Channel

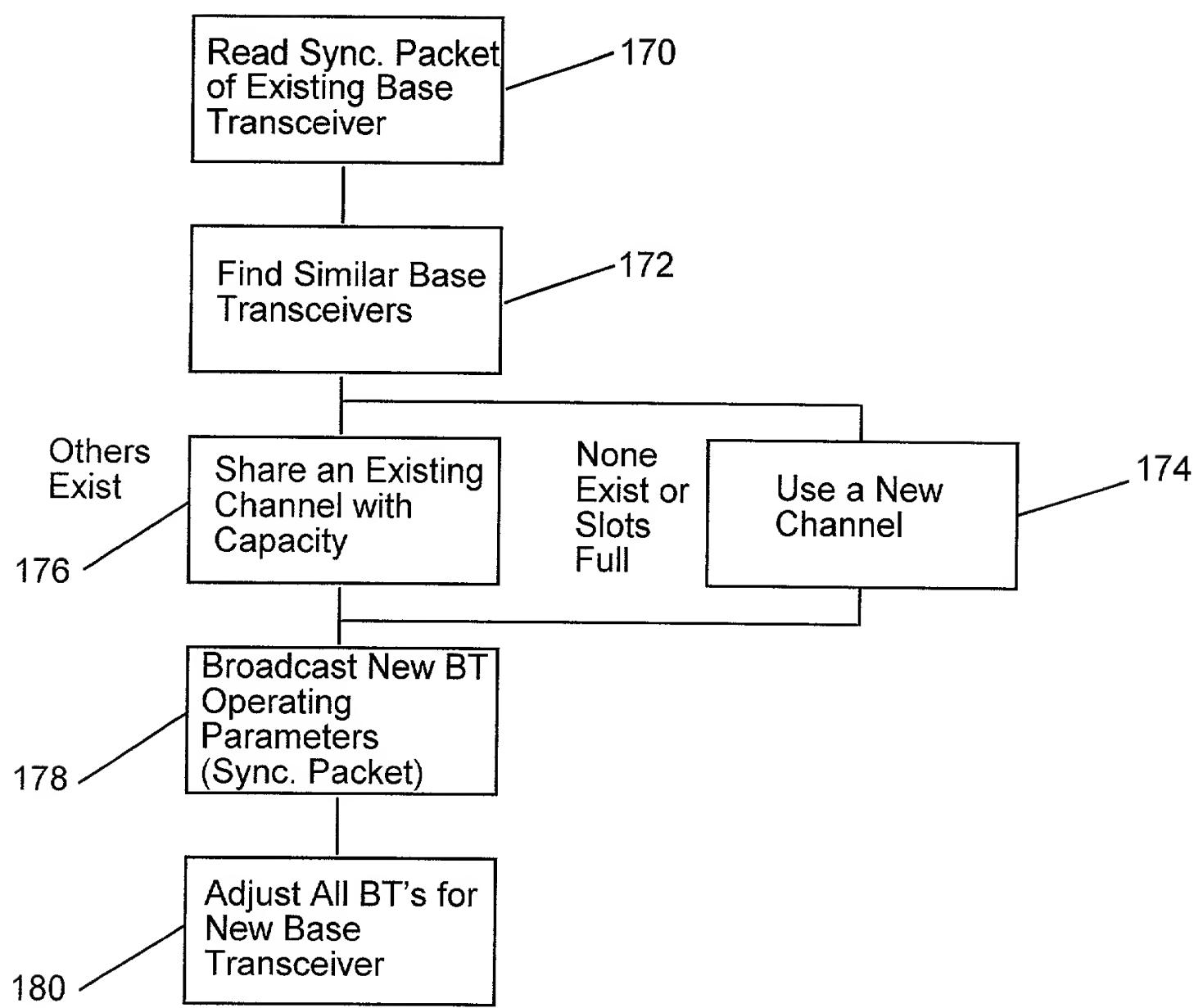


Figure 20 Manual Time Slot Change

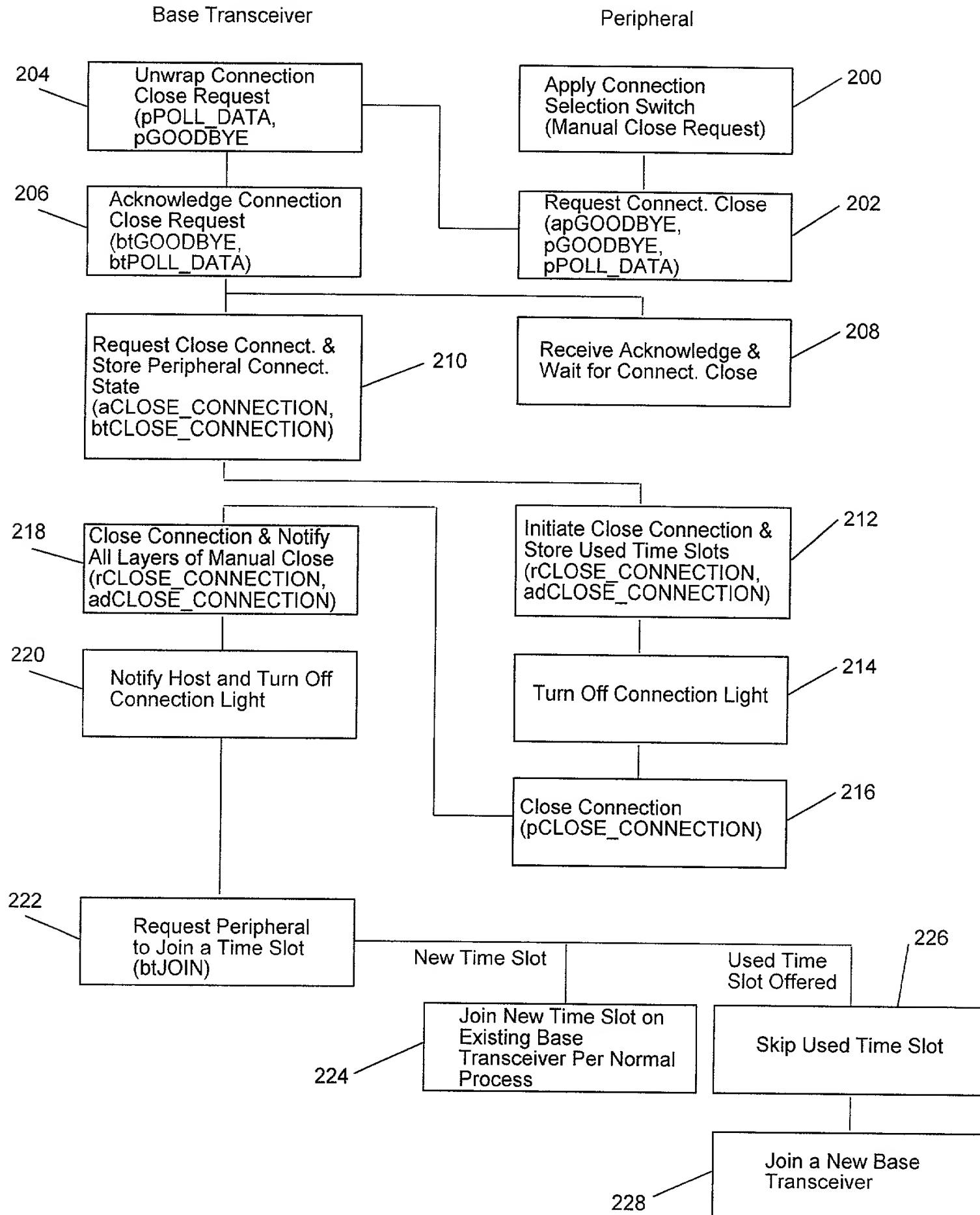


Figure 21 Bit Error Adaptation

